

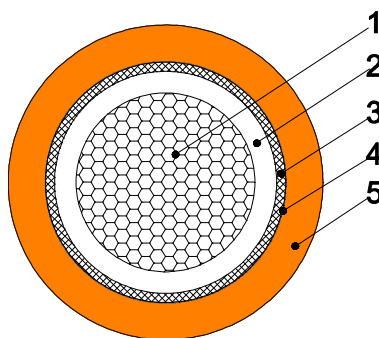
LEONI Part No.: **FHLR2GCB2G 00019**

Geschirmte Silikon isolierte HV Leitung für automobile Anwendungen
Shielded silicone insulated HV cable for automotive applications

FHLR2GCB2G 70/0,21/T180/600V AC / 1000V DC

1. Leitungsaufbau / Construction

1.1. Leitungsquerschnittszeichnung / Cross section drawing



1.2. Aufbaubeschreibung / Design characterization

1.2.1. Leiter / Conductor (1)

Cu-Litze, blank, Cu ETP 1 gem. EN 13602
Stranded copper wire, bare, CU ETP 1 acc. to EN 13602

1.2.2. Isolierung / Insulation (2)

Kerbfestes Silikon, Farbe: nicht definiert
High tear resistant silicone, colour: not defined

1.2.3. Schirmung / Shielding

1. Geflecht aus Cu-Drähten, verzinkt, Cu ETP 1 gem. EN 13602
Braid of tinned copper wires, Cu ETP 1 acc. to EN 13602 (3)
2. Aluminium kaschierte Folie, Metallseite innen
Aluminium coated foil, metal layer inwards (4)

1.2.4. Mantel / Jacket (5)

Kerbfestes Silikon, Farbe: orange ähnlich RAL 2003
High tear resistant silicone, colour: orange sim. RAL 2003

1.2.5. Standardaufdruck / Marking

Text: **LEONI Silitherm FHLR2GCB2G 70mmq ⚡ ATTENTION HIGH VOLTAGE**
MAX 600 V AC / 1000V DC ⚡ FHLR2GCB2G 00019 Chargennummer

Erstellt Creator	Geprüft Released	Erzeugnisnr. Part No.	Änderungsindex Version	Ausgabedatum Date of issue	Beschreibung Description
M. Guindani	S. Ramer	FHLR2GCB2G 00019	5.1	04.02.2020	Layout-Überarbeitung / Layout revision

"Some of the terms used in this document are not used consistently in the industry. LEONI, however, endeavours to use terminology consistently in the interests of transparent business relationships and customer communication. In order to avoid difficulties in their interpretation, we refer you to the definitions of the terms used by us available at www.leoni.com/en/company/copper-business. The current version at the time this document was sent is the binding version. These definitions form part of the contract. If the terms defined there are used in this document, they have the meaning given there. The actual version of our definitions is available to you also already when the contract is concluded. We will be pleased to provide you with a list of these definitions if required."

"Depending on the system settings, other rounding methods may be used in addition to the "round half up" rule to calculate the price and to determine the individual factors. In certain cases, this may lead to slight differences, either upwards or downwards, compared to the "round half up" rule."

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1.3. Aufbaudaten / Design data

Ader Core Element no.	Leiteraufbau Conductor stranding nom. [no]. x [mm]	Querschnitt Nominal Cross section nom. [mm ²]	Litzen- Ø Conductor- Ø nom. [mm]	Wandstärke Wall thickness min. [mm]	Ader- Ø Core- Ø [mm]
1,2	2272x0,2	70	11,4	0,8	14,0 ± 0,3
Schirmung Shield Element no.	Aufbau Design max. [mm]		Opt. Bedeckung Visual coverage min. [%]		
3	0,21		85		
4	PETP/Al		100		
Mantel Jacket Element No.	Wandstärke Wall thickness min. [mm]		Aussen- Ø Outer- Ø [mm]		
5	0,9		17,9 ± 0,3		

2. Elektrische Eigenschaften / Electrical characteristics (20°C)

- | | |
|--|--------------------|
| 2.1. Leiterwiderstand
Conductor resistance (1) | max. 0,259 Ohm/km |
| 2.2. Geflechschirmwiderstand
Braid shield resistance (3) | max. 3,2 Ohm/km |
| 2.3. Kapazität
Capacitance | nom. 726 pF/m |
| 2.4. Mittlerer Wellenwiderstand für hohe Frequenzen
Mean characteristics impedance for high frequencies | nom. 9 Ohm |
| 2.5. Spannungsfestigkeit
Withstand voltage | 5kV (AC) |
| 2.6. Isolation und Mantelfehler
Insulation and jacket faults | 8 kV (AC) |
| 2.7. Betriebsspannung
Operating voltage | 600V AC / 1000V DC |

Technisches Datenblatt – Technical Data Sheet – Technisches Datenblatt – Technical Data Sheet – Technisches Datenblatt

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3. Mechanische Eigenschaften / *Mechanical characteristics*

- 3.1. Leitungsgewicht ca. 889 kg/km
Cable weight
- 3.2. Kupferzahl 749 kg/km
Copper Sales Factor
- 3.3. Minimaler Biegeradius für statische Verlegung 3 x d
Minimun bending radius for static laying

4. Thermische Eigenschaften / *Thermal characteristics*

- Betriebstemperatur (3000 h) -40°C bis/to 180°C
Operating temperature (3000 h)

5. Normen / *Standards*

- In Anlehnung / *sim.* LV 216-2
In Anlehnung / *sim.* ISO 6722 & ISO 14572
Halogenfreiheit / *Halogen-free* IEC 60754-1, 60754-2

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